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EUROPEAN PATENT APPLICATION

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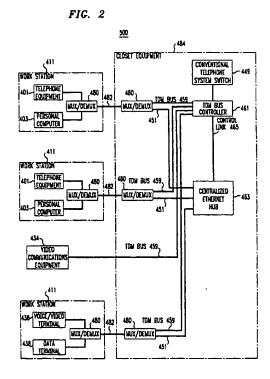
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- (54) Communication system topology providing dynamic allocation of B-channels
- Communications systems and methods are di-(57)rected to a novel communications platform which employs a TDM bus, a TDM bus controller, a passive Ethernet bus, and a centralized Ethernet hub to provide for the communication of data, voice, and/or video signals among a plurality of endpoint devices. The TDM bus controller provides a plurality of B-Channels on the TDM bus. The centralized Ethernet hub is coupled to the TDM bus controller via a control link. Each endpoint device is connected to at least one of the passive Ethemet bus and the TDM bus. The centralized Ethernet hub operates over the passive Ethernet bus to dynamically allocate one or more individual B-Channels of a single B-Channel set amongst a group of endpoint devices, such as telephone equipment, video communications equipment, processors, and/or computing devices. The centralized Ethernet hub provides a logical control channel to each endpoint device for call establishment. Each endpoint device is coupled to the logical control channel over at least one of a first path comprising the passive Ethernet bus and a second path comprising the TDM bus, the TDM bus controller, and the control link. The logical control channel executes B-channel seizure algorithms for establishment of communications to and from selected endpoint devices.



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EUROPEAN SEARCH REPORT

Application Number EP 95 30 7026

Category	Citation of document with in of relevant pass.	dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.8)
X	US 5 355 375 A (CHR 11 October 1994	A (CHRISTENSEN GARY S)		H04Q11/04 H04L12/44
A	EP 0 596 645 A (NAT 11 May 1994 * abstract *			
A	CHLAMTAC I ET AL: "QUADRO-STAR: A HIGH PERFORMANCE OPTICAL WDM STAR NETWORK" IEEE TRANSACTIONS ON COMMUNICATIONS, vol. 42, no. 8, 1 August 1994, pages 2582-2591, XP000462376 * abstract *		1,2,5-7, 10,13,14	
A	KANNAN B ET AL: "A PROTOCOL FOR WDM STAR COUPLER NETWORKS" PROCEEDINGS OF THE CONFERENCE ON COMPUTER COMMUNICATIONS (INFOCOM), TORONTO, JUNE 12 - 16, 1994, vol. 3, 12 June 1994, pages 1536-1543, XP000496620 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS * abstract *		10,13,14	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H04Q H04L
A	CLARK B: "EMERGING WESCON '94. WESTERN CONVENTION, ANAHEIM 27 September 1994, INSTITUTE OF ELECTR ENGINEERS * the whole documen	1,2,5-7,10,13,14		
	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
X ; par Y ; par doc	THE HAGUE CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with anot urment of the same category hnological background	E : earlier patent after the filing her D : document cit L : document cit	ciple underlying the document, but pub date ed in the application of for other reasons	lished on, or 1

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EUROPEAN SEARCH REPORT

Application Number EP 95 30 7026

Category	Citation of document with in of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.6)
A	CHLAMTAC I ET AL: COMPUTER COMMUNICAT: vol. 17, no. 5, 11 / 369-380, XP000005073 * abstract *	'LAN-HUB" IONS REVIEW, August 1987, pages	1,2,5-7, 10,13,14	
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)
	The present search report has	peen drawn up for all claims		
	Place of search	Date of completion of the sear	l	Examiner
	THE HAGUE	14 September 1	1998 Sta	aessen, B
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